

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-21 (Cancelled)

22. (New) A method for data sharing across batch sequential processes and on-line transactional processes in a clustered arrangement of multiple data processing systems, the method comprising:

obtaining a lock on a control area of a file on behalf of an application performing a batch sequential process, the control area being a sequentially ordered set of records of the file;

subsequent to obtaining the lock on the control area, reading the sequentially ordered set of records from the control area of the file into an application buffer area;

moving each record in the application buffer area, one at a time, to the application for processing;

responsive to a record being moved from the application buffer area to the application for processing, determining whether the record needs to be updated or deleted;

responsive to the record needing to be updated, replacing the record in the application buffer area with a new copy; and

responsive to the record needing to be deleted, removing the record from the application buffer area.

23. (New) The method of claim 22, further comprising:
responsive to the record being replaced or removed, creating a log record in an application log area.
24. (New) The method of claim 23, further comprising:
creating a log record in a file management server log for each log record in the application log area; and
subsequent to creating a log record in the file management server log for each log record in the application log area, marking the application log area as empty.
25. (New) The method of claim 22, further comprising:
subsequent to processing of each record held in the application buffer by the application, obtaining a record lock on each record of the file that has been updated or deleted.
26. (New) The method of claim 25, wherein the record lock is an EXCLUSIVE lock.
27. (New) The method of claim 22, wherein the lock on the control area of the file is a BATCH_EXCLUSIVE lock.
28. (New) The method of claim 22, wherein the lock on the control area of the file enables the application to access any and all records within the control area without obtaining record locks and without making calls to a file management server for records.

29. (New) The method of claim 22, further comprising:

obtaining another lock on another control area of the file on behalf of another application performing an on-line transactional process, the other control area being a different sequentially ordered set of records of the file,

wherein the other lock on the other control area inhibits batch sequential access to records in the other control area.

30. (New) The method of claim 29, wherein the other lock on the other control area of the file is a TRANSACTION_SHARED lock.

31. (New) A computer readable medium encoded with a computer program for data sharing across batch sequential processes and on-line transactional processes in a clustered arrangement of multiple data processing systems, the computer program comprising instructions for:

obtaining a lock on a control area of a file on behalf of an application performing a batch sequential process, the control area being a sequentially ordered set of records of the file;

subsequent to obtaining the lock on the control area, reading the sequentially ordered set of records from the control area of the file into an application buffer area;

moving each record in the application buffer area, one at a time, to the application for processing;

responsive to a record being moved from the application buffer area to the application for processing, determining whether the record needs to be updated or deleted;

responsive to the record needing to be updated, replacing the record in the application buffer area with a new copy; and

responsive to the record needing to be deleted, removing the record from the application buffer area.

32. (New) The computer readable medium of claim 31, wherein the computer program further comprises instructions for:

responsive to the record being replaced or removed, creating a log record in an application log area.

33. (New) The computer readable medium of claim 32, wherein the computer program further comprises instructions for:

creating a log record in a file management server log for each log record in the application log area; and

subsequent to creating a log record in the file management server log for each log record in the application log area, marking the application log area as empty.

34. (New) The computer readable medium of claim 31, wherein the computer program further comprises instructions for:

subsequent to processing of each record held in the application buffer by the application, obtaining a record lock on each record of the file that has been updated or deleted.

35. (New) The computer readable medium of claim 34, wherein the record lock is an EXCLUSIVE lock.

36. (New) The computer readable medium of claim 31, wherein the lock on the control area of the file is a BATCH_EXCLUSIVE lock.

37. (New) The computer readable medium of claim 31, wherein the lock on the control area of the file enables the application to access any and all records within the control area without obtaining record locks and without making calls to a file management server for records.

38. (New) The computer readable medium of claim 31, wherein the computer program further comprises instructions for:

obtaining another lock on another control area of the file on behalf of another application performing an on-line transactional process, the other control area being a different sequentially ordered set of records of the file,

wherein the other lock on the other control area inhibits batch sequential access to records in the other control area.

39. (New) The computer readable medium of claim 38, wherein the other lock on the other control area of the file is a TRANSACTION_SHARED lock.